

DATE

1812Z 24 MAY 63

SECRET

D/Tech
D1FA
DDR
PS
AB

TO : DIRECTOR

25X1A

FROM :

SUBJECT: USA (1-15)

INFO : S/C (16)

ROUTINE

Sim
BT-1943
Tef

25X1A

TOR: 2006Z 24 MAY 63

25X1A

IN-77632

25X1A

TO

FROM

INFO

591

CORONA/LANYARD

25X1A

ATTN:

REF: SPECIAL MIRROR STATUS REPORT

* SPECIAL MIRROR STATUS REPORT AS OF 23 MAY 1963. THE STATUS OF BERYLLIUM MIRRORS IS AS FOLLOWS:

MIRROR BLANK NBR. 1 - RECEIVED IN-HOUSE 21 MAY AND NOW BEING TEMPERATURE CYCLED PRIOR TO GRINDING AND POLISHING.

MIRROR NBR. 2 - USED FOR FINAL ASSEMBLY ALIGNMENT AND CHECKOUT AT 128 PLANT.

* MIRRORS NBR. 3, 4, AND 5 - DELIVERED.

25X1A

MIRROR BLANK NBR. 6 - IN FINAL MACHINING AND SCHEDULED FOR [REDACTED] ON 25 MAY.

MIRROR BLANK NBR. 7 - EXPERIMENTAL - NO FURTHER WORK AT PRESENT BEING DONE TO IMPROVE OPTICAL QUALITY. USED TO IMPROVE TEST

PROCEDURES.

DOCUMENT NO.

NO CHANGE IN CLASS. X

☐ DECLASSIFIED

CLASS. CHANGED TO: TS S 20 //

NEXT REVIEW DATE:

AUTH: HR 10-2

DATE: 15-7-81 REVIEWER: 008632

SECRET

591 (IN--77632)

S E C R E T

PAGE TWO

MIRROR BLANK NBR. 8 - RECEIVED IN-HOUSE AND NOW BEING OPTICAL GROUND AND POLISHED.

MIRROR NBR. 9 - INDICATED LOSS OF FIGURE WHEN EXTREME TEMPERATURE CYCLE TESTED, HOWEVER, "OPTICAL FLATNESS" HAS RETURNED SO A CONTINUED SERIES OF MEASUREMENTS ARE NOW BEING PERFORMED. THIS MIRROR WILL BE POTTED ON OR BEFORE 27 MAY IF TESTS SHOW FIGURE REQUIRED REMAINS.

MIRROR NBR. 10 - DELIVERED TO PROJECT FOR UNIT USE ON 22 MAY. HIS MIRROR HAS BEEN MOUNTED ON UNIT 6 FOR ACCEPTANCE TESTING.

25X1A MIRROR BLANK NBR. 11 - IN FINAL MACHINING AND SCHEDULED FOR [REDACTED] ON 25 MAY.

MIRROR BLANK NBR. 12 - IN POLISHING AND FIGURING. PROGRESS APPEARS EXCELLENT AT THIS TIME WITH COMPLETION POSSIBLE WITHIN A WEEK.

25X1A MIRROR BLANK NBR. 13 - FINAL MACHINING COMPLETE AND SCHEDULED FOR [REDACTED] ON 24 MAY.

25X1A MIRROR BLANK NBR. 14 - STARTING FINAL MACHINING AND SCHEDULED FOR [REDACTED] ON 29 MAY.

MIRROR BLANKS 15, 16, AND 17 - NOW SCHEDULED FOR FINAL MACHINING STARTING 5 JUNE.

THE STATUS OF BACKUP ALUMINUM MIRRORS IS AS FOLLOWS:

ALUMINUM NBR. 1 - IN USE BY PROJECT FOR UNIT TESTING.

ALUMINUM NBR. 2 - POLISHING, FIGURING, AND AND COATING COMPLETE. REQUIRES FINAL TESTING WHICH HAS BEEN DELAYED DUE TO TESTING OF BERYLLIUM MIRRORS NBR. 9 AND 10. WILL BE DELIVERED TO PROJECT BY 27 MAY.

S E C R E T

(IN-77632)

S E C R E T

PAGE THREE

ALUMINUM NBR. 3 - PARTIALLY POLISHED AND FIGURES. WORK
PRESENTLY STOPPED IN ORDER TO ALLOW THREE BERYLLIUM MIRRORS TO BE
POLISHED IN PARALLEL.

END OF MESSAGE

S E C R E T